

SEQUENCE LISTING

<110> Krieger, Monty

<120> SR-B1 Antagonist And Use Thereof As Contraceptives And
In The Treatment Of Steroidal Overproduction

<130> MIT8299

<140>
<141>

<150> 09/148,012

<151> 1998-10-04

<150> 60/057,943

<151> 1997-09-05

<160> 9

<170> PatentIn Ver. 2.0

<210> 1
<211> 1788
<212> DNA
<213> Hamster

<220>
<221> misc_feature
<222> (156)..(1683)
<223> Encodes amino acid sequence for the Hamster
Scavenger Receptor Class B-I

<400> 1
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cctgagcccc gcgagccccgg gccgcacacg cggacatggg cggcagcgcc agggcgcgct 180
gggtggcggt ggggtctgggc gtcgtggggc tgctgtgcgc tgtgctcggt gtggttatga 240
tcctcggtat gcccctcgctc atcaaacacg aggtactgaa gaatgtccgc atagacccca 300
gcagcctgtc ctttgcata g tggaaaggaga tccctgtacc cttctacttg tccgtctact 360
tcttcgaggt ggtcaatccc agcgagatcc taaagggtga gaagccagta gtgcgggagc 420
gtggacccta tgtctacagg gaattcagac ataaggccaa catcacccctc aatgacaatg 480
atactgtgtc ctttggag caccgcagcc tccatttcca gccggacagg tcccacggct 540
ctgagagtga ctacattata ctgcctaaca ttctggctt gggggcgca gtaatgatgg 600
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gtgcctttat gaaccgaaca gttggtgaga tcctgtgggg ctatgaggat cccttcgtga 720
attttatcaa caaatactta ccagacatgt tccccatcaa gggcaagttc ggctgtttg 780
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agcagtgcaa catgatcaat ggcacttccg ggcagatgtg ggcaccattc atgacacccca 960
agtccctcgct ggaattcttc agtccggaaag cctgcaggctc tatgaagctc acctaccatg 1020
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ccaatgggtc tgtttaccca cccaatgaag gtttctgccc gtgccttcaa tccggcattc 1140
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aatgctttt attttggagt ggtagtaaaa agggtcgca ggataaggag gccattcagg 1620
cctactctga gtctctgatg tcaccagctg ccaagggcac ggtgctcaa gaagccaagc 1680
tgttagggtcc caaagacacc acgagcccc ccaacctgat agcttggtca gaccagccat 1740
ccagcccccta caccggctt cttgaggact ctctcagcgg acagtcgc 1788

<210> 2
<211> 509
<212> PRT
<213> Hamster

<220>
<221> TRANSMEM
<222> (9)..(32)
<223> Putative

<220>
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<222> (440)..(464)
<223> Putative

<220>
<221> CARBOHYD
<222> (102)..(104)
<223> Potential

<220>
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<222> (108)..(110)
<223> Potential

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<222> (173)..(175)
<223> Potential

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<222> (212)..(214)
<223> Potential

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<222> (227)..(229)
<223> Potential

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<221> CARBOHYD
<222> (255)..(257)
<223> Potential

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<222> (310)..(312)

<223> Potential

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<222> (330)..(332)

<223> Potential

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<221> CARBOHYD

<222> (383)..(385)

<223> Potential

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<222> (21)

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<223> Potential

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Val Gly Leu Leu Cys Ala Val Leu Gly Val Val Met Ile Leu Val Met

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35	40	45
Ser Ser Leu Ser Phe Ala Met Trp Lys Glu Ile Pro Val Pro Phe Tyr		
50	55	60
Leu Ser Val Tyr Phe Phe Glu Val Val Asn Pro Ser Glu Ile Leu Lys		
65	70	75
Gly Glu Lys Pro Val Val Arg Glu Arg Gly Pro Tyr Val Tyr Arg Glu		
85	90	95
Phe Arg His Lys Ala Asn Ile Thr Phe Asn Asp Asn Asp Thr Val Ser		
100	105	110
Phe Val Glu His Arg Ser Leu His Phe Gln Pro Asp Arg Ser His Gly		
115	120	125
Ser Glu Ser Asp Tyr Ile Ile Leu Pro Asn Ile Leu Val Leu Gly Gly		
130	135	140
Ala Val Met Met Glu Ser Lys Ser Ala Gly Leu Lys Leu Met Met Thr		
145	150	155
Leu Gly Leu Ala Thr Leu Gly Gln Arg Ala Phe Met Asn Arg Thr Val		
165	170	175
Gly Glu Ile Leu Trp Gly Tyr Glu Asp Pro Phe Val Asn Phe Ile Asn		
180	185	190
Lys Tyr Leu Pro Asp Met Phe Pro Ile Lys Gly Lys Phe Gly Leu Phe		
195	200	205
Val Glu Met Asn Asn Ser Asp Ser Gly Leu Phe Thr Val Phe Thr Gly		
210	215	220
Val Gln Asn Phe Ser Lys Ile His Leu Val Asp Arg Trp Asn Gly Leu		
225	230	235
Ser Lys Val Asn Tyr Trp His Ser Glu Gln Cys Asn Met Ile Asn Gly		
245	250	255
Thr Ser Gly Gln Met Trp Ala Pro Phe Met Thr Pro Gln Ser Ser Leu		
260	265	270
Glu Phe Phe Ser Pro Glu Ala Cys Arg Ser Met Lys Leu Thr Tyr His		
275	280	285
Asp Ser Gly Val Phe Glu Gly Ile Pro Thr Tyr Arg Phe Thr Ala Pro		
290	295	300
Lys Thr Leu Phe Ala Asn Gly Ser Val Tyr Pro Pro Asn Glu Gly Phe		
305	310	315
Cys Pro Cys Leu Glu Ser Gly Ile Gln Asn Val Ser Thr Cys Arg Phe		

325	330	335
Gly Ala Pro Leu Phe Leu Ser His Pro His Phe Tyr Asn Ala Asp Pro		
340	345	350
Val Leu Ser Glu Ala Val Leu Gly Leu Asn Pro Asp Pro Arg Glu His		
355	360	365
Ser Leu Phe Leu Asp Ile His Pro Val Thr Gly Ile Pro Met Asn Cys		
370	375	380
Ser Val Lys Leu Gln Ile Ser Leu Tyr Ile Lys Ala Val Lys Gly Ile		
385	390	395
Gly Gln Thr Gly Lys Ile Glu Pro Val Val Leu Pro Leu Leu Trp Phe		
405	410	415
Glu Gln Ser Gly Ala Met Gly Gly Glu Pro Leu Asn Thr Phe Tyr Thr		
420	425	430
Gln Leu Val Leu Met Pro Gln Val Leu Gln Tyr Val Gln Tyr Val Leu		
435	440	445
Leu Gly Leu Gly Gly Leu Leu Leu Val Pro Val Ile Tyr Gln Leu		
450	455	460
Arg Ser Gln Glu Lys Cys Phe Leu Phe Trp Ser Gly Ser Lys Lys Gly		
465	470	475
480		
Ser Gln Asp Lys Glu Ala Ile Gln Ala Tyr Ser Glu Ser Leu Met Ser		
485	490	495
Pro Ala Ala Lys Gly Thr Val Leu Gln Glu Ala Lys Leu		
500	505	

<210> 3
 <211> 1785
 <212> DNA
 <213> Mouse

<220>
 <221> misc_feature
 <222> (51)..(1577)
 <223> Encodes the amino acid sequence for the murine
 Scavenger Receptor Class B1

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 tcggcgttgt catgatcctc atggtgcctt ccctcatcaa gcagcaggtg ctcaagaatg 180
 tccgcataga cccgagcagc ctgtccttcg ggatgtggaa ggagatcccc gtccctttct 240
 acttgtctgt ctacttcttc gaagtggtca acccaaacga ggtcctcaac ggccagaagc 300
 cagtagtccg ggagcgtgga ccctatgtct acagggagtt cagacaaaag gtcaacatca 360
 ccttcaatga caacgacacc gtgtccttcg tggagaaccg cagcctccat ttccagcctg 420
 acaagtgcga tggctcagag agtgactaca ttgtactgcc taacatcttgc tgcctggggg 480
 gtcgatatt gatggagagc aagcctgtga gcctgaagct gatgtgacc ttggcgctgg 540

tcaccatggg ccagcgtgct tttatgaacc gcacagttgg tgagatcctg tggggctatg 600
acgatccctt cgtgcattt ctcAACACGT acctcccaga catgcttccc ataaaggca 660
aatttggcct gtttgggg atgaacaact cgaattctgg ggtcttact gtcttcacgg 720
gcgtccagaa ttcagcagg atccatctgg tggacaaatg gaacggactc agcaagatcg 780
attattggca ttcagagcag tctaACATGA tcaatggac ttccggcag atgtggcac 840
ccttcatgac acccgaatcc tcgctggat tcttcAGCCC ggaggcatgc aggtccatga 900
agctgaccta caacgaatca agggtgttgc aaggcattcc cacgtatcgc ttcacggccc 960
ccgatactct gtttccaac gggTCCTCT acccACCCAA cgaaggcttc tgccatGCC 1020
gagagtctgg cattcagaat gtcagcacct gcaggTTGG tgccctctg tttctctccc 1080
accccccaccc ttacaacGCC gaccCTGTGT tgTCAGAAGC tgTTCTGGT ctgaacccta 1140
acccaaAGGA gcattcCTG ttcctAGACA tccatCCGT cactGGGATC cccatGAact 1200
gttctgtgaa gatgcagctg agcctctaca tcaaATCTGT caaggGCATC gggcaaACAG 1260
gaaagatcga gccAGTAGTT ctgcCGTGC tgggttCGA acagAGCGGA gcaatGGGTG 1320
gcAAAGCCCT gaggcACGTT tacacgcAGC tgggtCTGAT gcccAGGTT ctTCactACG 1380
cgcAGTATGT gctgCTGGG CTTGGAGGC tccTGTGCT ggtGCCATC atctGCCAAC 1440
tgCGCAGCCA ggagaaATGC ttttGTttt ggagtGTTAG taAAAAGGGC tcccAGGATA 1500
aggaggccat tcaggcctac tctgagtccc tgatgtcacc agctGCCAAG ggcACGGTGC 1560
tgcaagaAGC caagCTATAG ggtcctGAAG acactATAAG ccccccaAAAC ctgatAGCTT 1620
gTCAGACCA GCCACCCAGT CCCTACACCC CGCTTCTGA ggactCTCTC agcggacAGC 1680
ccaccAGTGC catggcCTGA gccccAGAT gtcacacCTG tccgcACGCA cggcACATGG 1740
atgcccacgc atgtgcaaaa acaactcagg gaccaggac agacc 1785

<210> 4

<211> 509

<212> PRT

<213> Mouse

<400> 4

Met Gly Gly Ser Ser Arg Ala Arg Trp Val Ala Leu Gly Leu Gly Ala
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Leu Gly Leu Leu Phe Ala Ala Leu Gly Val Val Met Ile Leu Met Val
20 25 30

Pro Ser Leu Ile Lys Gln Gln Val Leu Lys Asn Val Arg Ile Asp Pro
35 40 45

Ser Ser Leu Ser Phe Gly Met Trp Lys Glu Ile Pro Val Pro Phe Tyr
50 55 60

Leu Ser Val Tyr Phe Phe Glu Val Val Asn Pro Asn Glu Val Leu Asn
65 70 75 80

Gly Gln Lys Pro Val Val Arg Glu Arg Gly Pro Tyr Val Tyr Arg Glu
85 90 95

Phe Arg Gln Lys Val Asn Ile Thr Phe Asn Asp Asn Asp Thr Val Ser
100 105 110

Phe Val Glu Asn Arg Ser Leu His Phe Gln Pro Asp Lys Ser His Gly
115 120 125

Ser Glu Ser Asp Tyr Ile Val Leu Pro Asn Ile Leu Val Leu Gly Gly
130 135 140

Ser Ile Leu Met Glu Ser Lys Pro Val Ser Leu Lys Leu Met Met Thr
145 150 155 160

Leu Ala Leu Val Thr Met Gly Gln Arg Ala Phe Met Asn Arg Thr Val
165 170 175

Gly Glu Ile Leu Trp Gly Tyr Asp Asp Pro Phe Val His Phe Leu Asn
180 185 190

Thr Tyr Leu Pro Asp Met Leu Pro Ile Lys Gly Lys Phe Gly Leu Phe
195 200 205

Val Gly Met Asn Asn Ser Asn Ser Gly Val Phe Thr Val Phe Thr Gly
210 215 220

Val Gln Asn Phe Ser Arg Ile His Leu Val Asp Lys Trp Asn Gly Leu
225 230 235 240

Ser Lys Ile Asp Tyr Trp His Ser Glu Gln Cys Asn Met Ile Asn Gly
245 250 255

Thr Ser Gly Gln Met Trp Ala Pro Phe Met Thr Pro Glu Ser Ser Leu
260 265 270

Glu Phe Phe Ser Pro Glu Ala Cys Arg Ser Met Lys Leu Thr Tyr Asn
275 280 285

Glu Ser Arg Val Phe Glu Gly Ile Pro Thr Tyr Arg Phe Thr Ala Pro
290 295 300

Asp Thr Leu Phe Ala Asn Gly Ser Val Tyr Pro Pro Asn Glu Gly Phe
305 310 315 320

Cys Pro Cys Arg Glu Ser Gly Ile Gln Asn Val Ser Thr Cys Arg Phe
325 330 335

Gly Ala Pro Leu Phe Leu Ser His Pro His Phe Tyr Asn Ala Asp Pro
340 345 350

Val Leu Ser Glu Ala Val Leu Gly Leu Asn Pro Asn Pro Lys Glu His
355 360 365

Ser Leu Phe Leu Asp Ile His Pro Val Thr Gly Ile Pro Met Asn Cys
370 375 380

Ser Val Lys Met Gln Leu Ser Leu Tyr Ile Lys Ser Val Lys Gly Ile
385 390 395 400

Gly Gln Thr Gly Lys Ile Glu Pro Val Val Leu Pro Leu Leu Trp Phe
405 410 415

Glu Gln Ser Gly Ala Met Gly Lys Pro Leu Ser Thr Phe Tyr Thr
420 425 430

Gln Leu Val Leu Met Pro Gln Val Leu His Tyr Ala Gln Tyr Val Leu
435 440 445

Leu Gly Leu Gly Gly Leu Leu Leu Leu Val Pro Ile Ile Cys Gln Leu
450 455 460

Arg Ser Gln Glu Lys Cys Phe Leu Phe Trp Ser Gly Ser Lys Lys Gly
465 470 475 480
Ser Gln Asp Lys Glu Ala Ile Gln Ala Tyr Ser Glu Ser Leu Met Ser
485 490 495
Pro Ala Ala Lys Gly Thr Val Leu Gln Glu Ala Lys Leu
500 505

<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer

<400> 5
tgaagggtgg tttcaagagc agtcct 26

<210> 6
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer

<400> 6
gattggaaag acaatagcag gcatgc 26

<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer

<400> 7
tatccctcggt agacctgagt cgtgt 25

<210> 8
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer

<400> 8
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<210> 9
<211> 35

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 9

ggatagccct cgagttctga caacacaggg tcggc

35